

A
CATALOGUE
OF THE
Officers and Students
OF
HAVERFORD SCHOOL.

1853-4.

PHILADELPHIA:
KITE & WALTON, PRINTERS,
RANSTEAD PLACE.

1854.



Drawn & Engraved by J. G. Smith

Harvard University

Cambridge

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GRADUATES.

1836.

NAMES.

RESIDENCE.

Thomas F. Cock,New York City.....
Joseph Walton, Jun.,Philadelphia.....

1837.

William C. Longstreth,	.....Philadelphia.....
David C. Murray,	.....New York City.....
Lindlay Murray, Jun.,	.....New York City.....
Benjamin V. Marsh,	.....Rahway, N. J.....
Joseph L. Pennock,	.....Philadelphia.....
Robert B. Parsons,	.....Flushing, N. Y.....
Charles L. Sharpless,	.....Philadelphia.....
Lloyd P. Smith,	.....Philadelphia.....
B. Wyatt Wistar,	.....Philadelphia.....

1838.

James V. Emlen,	.....Philadelphia.....
John Elliott, Jun.,	.....Philadelphia.....

1839.

Frederick Collins,	.....Philadelphia.....
Thomas P. Cope, Jun.,	.....Philadelphia.....
Henry Hartshorne,	.....Philadelphia.....
Nereus Mendenhall,	.....Guilford Co., N. C.....
Richard Randolph, Jun.,	.....Philadelphia.....
Charles Taber,	.....New Bedford, Mass.....

1840.

NAMES.

RESIDENCE.

Joseph Howell, Jun.,.....Philadelphia.....
 Anthony M. Kimber,.....Philadelphia.....
 Henry H. G. Sharpless,.....Philadelphia.....
 John R. Winslow,.....Hertford, N. C.....

1841:

Richard H. Lawrence,.....New York City.....
 James P. Perot,.....Philadelphia.....
 Elias A. White,.....North Carolina.....

1842.

Robert Bowne,New York City.....
 Richard Cadbury,.....Philadelphia.....
 William S. Hilles,.....Wilmington, Del.....
 Thomas Kimber, Jun.,.....Philadelphia.....
 James J. Levick,.....Philadelphia.....
 Edmund Rodman,.....New Bedford, Mass.....
 Thomas Rodman,.....New Bedford, Mass.....
 Benjamin R. Smith,.....Haverford, Pa.....
 Augustus Taber,.....New Bedford, Mass.....
 Caleb Winslow,.....Hertford, N. C.....

1843.

Robert B. Howland,.....New Bedford, Mass.....
 Francis White,.....North Carolina.....
 William D. Stroud,.....Philadelphia.....

1844.

Evan T. Ellis,.....Philadelphia.....
 Isaac Hartshorne,.....Philadelphia.....
 Robert B. Haines,.....Germantown, Pa.....

1845.

Edmund Crenshaw,.....Richmond, Va.....
 Robert Pearsall,.....Philadelphia.....

1849.

NAMES.

RESIDENCE.

Albert K. Smiley,.....Vassalborough, Me.....
 Alfred H. Smiley,.....Vassalborough, Me.....

1851.

Joseph L. Bailey,.....Berks Co., Pa.....
 Philip C. Garrett,.....Philadelphia.....
 Thomas J. Leviek,.....Philadelphia.....
 Franklin E. Paige,.....Weare, N. H.....
 Zaecheus Test,.....Richmond, Ind.....
 James C. Thomas,.... ..Baltimore.....
 Richard Wood,.....Philadelphia.....

1852.

Dougan Clark,.....New Garden, N. C.....
 Lewis N. Hopkins,.....Baltimore.....
 William L. Kinsman,.....Salem, Mass.....
 William E. Newhall,.....Philadelphia.....
 James Whitall.....Philadelphia.....

1853.

William B. Morgan,.....Raysville, Ind.....
 William H. Pancoast,.....Philadelphia.....

UNDER GRADUATES.

SENIORS.

Frederick Arthur, Jun.,.....Nantucket, Mass.....
 John W. Cadbury,.....Philadelphia.....
 John B. Garrett,.....Philadelphia.....
 David Seull,.....Philadelphia.....

STUDENTS PURSUING THE STUDIES OF THE JUNIOR CLASS.

NAMES.

RESIDENCE.

John R. Hubbard,.....New Garden, N. C.....
Samuel Bettle,.....Philadelphia.....

SECOND JUNIORS.

J. Howell Brown,.....Philadelphia.....
Bartholomew W. Beesley,.....Philadelphia.....
Jonathan J. Comfort,.....Teeumseh, Mich.....
Joel Cadbury, Jun.,.....Philadelphia.....
John Cooper,.....Philadelphia.....
W. Harrington Field,.....Philadelphia.....
Gerard Hopkins,.....Baltimore.....
John B. Mellor,.....Philadelphia.....
William C. Taber, Jun.,.....New Bedford, Mass.....
George Valentine,.....Bellefonte, Pa.....
Edward R. Wood,.....Philadelphia.....
James M. Walton,.....Philadelphia.....

THIRD JUNIORS.

Lewis T. Brooke,.....Radnor, Pa.
Jesse S. Cheyney,.....Thornbury, Pa.....
Edwin L. Dickinson,.....Philadelphia.....
Elihu J. Farmer,.....Salineville, O.
Samuel Hopkins,.....Baltimore.....
Norwood P. Hallowell,.....Philadelphia.....
James C. Iddings,.....Philadelphia.....
John W. Street,.....Salem, Ohio.
David Street,.....Salem, Ohio.....
Abram Valentine,.....Bellefonte, Pa.....
William T. Valentine,.....Bellefonte, Pa.....
Thomas Wistar,.....Philadelphia.....
Wm. Wilberforce Wistar,.....Philadelphia.....
Ellis H. Yarnall,.....Philadelphia.....

STUDENTS PURSUING A PARTIAL COURSE.

NAMES.	RESIDENCE.
Francis M. Brooke,	Media, Pa.
Stephen G. Collins,	Philadelphia
William H. Crew,	Richmond, Va.
L. Murray Ferris, Jun.,	Newburgh, N. Y.
Hiram Hadley,	Sligo, Ohio.
Cyrus Mendenhall,	Thorntown, Ind.
Barton F. Thorn,	Crosswicks, N. J.

INTRODUCTORY CLASS.

Thomas W. Acton,	Salem, N. J.
Lehman A. Cooper,	Philadelphia.
Samuel Crowe,	Paoli, Ind.
James E. Carmalt,	Susquehanna Co., Pa.
William M. Dawson,	Philadelphia.
Joshua P. Eyre, Jun.,	Chester, Pa.
George H. Hopkins,	Haddonfield, N. J.
Joseph E. Hickman,	Willistown, Pa.
Ephraim Hopkins,	Darlington, Md.
Burge R. Lewis,	Philadelphia.
John Livezey,	Germantown, Pa.
Joseph R. Livezey,	Germantown, Pa.
William Mellor,	Philadelphia.
William H. Miller,	Providence, Pa.
Joseph T. Newbold,	Philadelphia.
Richard C. Paxson,	Philadelphia.
William W. Potts,	Norristown, Pa.
Alexander K. Pedrick,	Germantown, Pa.
Nathan Sellers,	Upper Darby, Pa.
Norman Tevis,	Philadelphia.
Edwin L. Tevis,	Philadelphia.
Edgar L. Thomson,	Philadelphia.

COURSE OF STUDY.

INTRODUCTORY CLASSES.

Arithmetic.	
Algebra,	<i>Alsop's First Lessons.</i>
Elements of Natural Philosophy.	
Latin Reader,	<i>Andrews.</i>
Viri Romæ,	"
Cæsar,	"
Greek Grammar,	<i>Sophocles.</i>
Greek Reader,	<i>Jacobs.</i>
Geography,	<i>Smith or Olney.</i>
English Grammar,	<i>Brown.</i>
Elements of History.	
English Composition,	<i>Parker.</i>

THIRD JUNIOR CLASS.

MATHEMATICS.

Algebra continued,	<i>Alsop.</i>
Geometry,	<i>First Six Books of Euclid.</i>
Surveying,	<i>Gummeré, through Ch. 3.</i>

LATIN AND GREEK LANGUAGES.

Virgil,	<i>Schmidt or Cooper.</i>
Greek Testament,	<i>Greenfield.</i>
Xenophon's Anabasis,	<i>Owen.</i>
or	
Herodotus commenced.	

ENGLISH LITERATURE, ETC.

Chemistry, *Stockhardt.*
 Outlines of History, *Weber.*
 Geology commenced, *Lyell.*
 English Composition, continued.

SECOND JUNIOR CLASS.

MATHEMATICS.

Surveying completed.
 Geometry of Planes.
 Plane and Spherical Trigonometry, . . *Lewis.*
 Descriptive Astronomy, to Part II., . . *Herschel.*

LATIN AND GREEK LANGUAGES.

Cicero's Orations, *Folsom.*
 Livy, *Lincoln.*
 Anabasis, or Herodotus completed.
 Iliad or Odyssey,
 Latin and Greek Prose Composition, . . *Arnold.*
 Antiquities.

ENGLISH LITERATURE, ETC.

Physical Geography.
 Geology continued.
 Chemistry, *Fownes.*
 Evidences of Christianity, *Paley.*

JUNIOR CLASS.

MATHEMATICS.

Descriptive Astronomy, continued, . . *Herschel.*
 Natural Philosophy, *Olmstead.*
 Analytical Geometry, *Loomis or Davies.*
 Mechanics, *Olmstead.*
 Optics.

LATIN AND GREEK LANGUAGES.

Horace,	<i>Lincoln.</i>
Tacitus,	<i>Tyler or Kingsley.</i>
Sophocles or Euripides,	<i>Woolsey.</i>
Demosthenes.	
Latin and Greek Composition, continued,	<i>Arnold.</i>
Antiquities.	

ENGLISH LITERATURE, ETC.

Rhetoric,	<i>Whately.</i>
Mental Philosophy.	
Commentaries on the Constitution,	<i>Story.</i>
Logic,	<i>Whately.</i>

SENIOR CLASS.

MATHEMATICS.

Differential and Integral Calculus.	<i>Loomis.</i>
Astronomy,	<i>Gummere.</i>

LATIN AND GREEK LANGUAGES.

Juvenal, or Equivalent,	<i>Leverett.</i>
Thucydides,	<i>Owen.</i>
Latin and Greek Composition, completed,	<i>Arnold.</i>
Antiquities.	

ENGLISH LITERATURE, ETC.

Political Economy,	<i>Vethake or Say.</i>
Lectures on Modern History,	<i>Arnold.</i>
Moral Philosophy,	<i>Dymond.</i>
Analogy of Natural and Revealed Religion,	<i>Butler.</i>

Examinations.

Before entering the Junior Class, each Student is subjected to a close written examination on the studies of the Third and Second Junior years; and a similar examination occurs at the completion of the Course, on the studies of the Junior and Senior years. The examinations, occupying a period of about three weeks, are conducted on the following plan.

The members of the class under Examination, are placed in a room by themselves, and each student is furnished with a set of questions, (the same to each), upon some book in the course, which he is required to answer in writing, without consulting any person or book. The time of writing varies from two to five hours, the latter being the limit allowed. The questions are upon topics and passages selected indiscriminately throughout the text-books, and are calculated to test the student's knowledge of the subject.

To each question a certain number is affixed, varying according to its importance and difficulty. If a student answers it correctly, he receives credit for the full number. If an error is committed, a deduction is made in the number received, proportioned to its importance. A student must gain credit for at least one half of all the numbers in each study of the course, and also for two thirds of all the numbers in each Department, before the Diploma of the Institution can be awarded. The Diplomas are thus designed to be honorary distinctions, corresponding rather to the Class-honors than to the Diplomas which are usually awarded in Colleges.

Object and Situation of the School.

About the year 1830, a strong interest was manifested by Friends in New York, Philadelphia and other places, for the establishment of a Collegiate Institution, where members of their own Society might be instructed in the higher branches of learning. Measures were accordingly taken for this object,—Subscriptions were opened, the site was selected, and an act of incorporation obtained from the Legislature of Pennsylvania. The buildings were erected and the School was opened in the year 1833.

The Institution has a remarkably pleasant and healthy location on the Columbia Rail Road, 9 miles West of Philadelphia. The building is situated in the midst of a lawn of forty acres, which is finely laid out with walks and terraces, and which, in the number and variety of its trees and shrubbery, is perhaps unsurpassed by any lawn in the state. Connected with this is a green-house accessible to the members of the School. All the Students board at the Institution, each one being furnished with a separate room. The number that can be accommodated is 65. Gas-works have lately been put up, and gas introduced throughout the buildings. By the exertions of the students, a Gymnasium has recently been built and furnished, at an expense of \$1300.

Observatory.

With the view of furnishing to the students in the higher classes the means of becoming familiar with the construction and use of astronomical instruments, and of acquiring from actual observation a practical acquaintance with astronomy, a handsome Observatory has recently been erected near the School. The building is of stone, and consists of a central part 20 feet square, and of about the same height, surmounted by a revolving dome 19 feet in diameter, and two wings, each about 15 feet square. In the west wing is the Transit room, and in the east one, a room for the observer.

The Instruments now in the Observatory are an Equatorial Telescope, a Meridian Transit Circle, a Sidereal Clock, a Magnetic Register for recording time, and several other smaller astronomical instruments. The Equatorial Instrument, by Fitz, is the largest in the State of Pennsylvania, and next in size to that of the National Observatory at Washington, being 11 feet long, with an achromatic object glass $8\frac{1}{4}$ inches in diameter. It is mounted in the Fraunhofer style, on a marble pedestal 8 feet high, which is supported by a large stone pier, passing through, though entirely detached from, the floors of the building. By means of clock work, the telescope can be kept as steadily pointing towards the celestial object upon which it is turned, as though the object itself were stationary.

The Transit Instrument, which is of the German form, having the circles at the extremities of the axis, was made by Wm. J. Young, of Philadelphia. It has a telescope of 5 feet focus and

4 inches aperture ; and two circles 26 inches in diameter, one of which is divided to read to two seconds of arc ; the other is used only as a finder. Each end of the axis is supported on a permanent marble pier 5 feet high, having its foundations on solid mason work unconnected with the building. In the same room with the Transit Instrument, is an excellent sidereal clock, the gift of Thomas P. Cope. It is made with a glass pendulum, and a mercurial compensation, and is firmly secured to a marble slab built in the wall of the room. Connected with the clock there is a Magnetic Register, by Bond of the Cambridge Observatory, which is a chronographic contrivance, by which, during observations, every second of time is recorded upon a moving sheet of paper : it is so arranged that the observer, by simply touching a spring, can mark the exact instant of the transit of a star across each wire of the instrument, and thus obtain its meridian passage to within $\frac{1}{50}$ th of a single second.

The cost of the Observatory was \$2500 ; and that of the Instruments in it about \$4500.

It is designed to connect it, by means of the Telegraph, with the observatories of Cambridge or Washington, so that observations made in one may be instantaneously recorded in the other, and thus the exact difference of time or of longitude of the two observatories obtained.

Library.

The Library belonging to the School has been selected with great care. The number of volumes is at present 2100, additions to which are frequently made. Besides a good selection of popular works in various departments, it includes the valuable mathematical collection of the late John Gummeré, and a complete set of Valpy's Latin Classics, with the most approved Lexicons, &c.; and will shortly be enriched with many of the best German commentaries on the Greek and Latin Classics.

Philosophical Apparatus.

A large and expensive apparatus has been provided for the illustration of Natural Philosophy and Chemistry; and additions are from time to time made to it, as the progress of the Sciences requires and the funds of the Institution permit.

Lecture and Apparatus Rooms.

A new building has recently been erected at a great expense, by the Managers, in the second story of which is a beautiful Lecture Room, admirably lighted and ventilated—and connected with it are the Apparatus Rooms, greatly facilitating the preparation and exhibition of Scientific experiments.

Chemical Laboratory.

In the rear of the Apparatus Rooms, is a large and thoroughly ventilated Laboratory, in which the Students are familiarized with Chemical Manipulations. These operations are conducted under the supervision of the teacher of Chemistry, and afford ample means for a practical acquaintance with this important branch of study.

Cabinet of Minerals.

The extensive collection of the late Dr. Troost occupies the cases in the Collection Room. An interesting addition to it has recently been made in a complete suite of Minerals illustrating the Geology of New York, prepared for the Institution by the late Lardner Vanuxem.

The Loganian Society.

This Society, established by the Officers and Students of the School in 1834, for their improvement in literary and scientific pursuits, has been in successful operation to this time. The exercises are Discussions, Declamations, Original Essays, etc. It also publishes a manuscript paper monthly. It has in its possession a library of about 500 volumes, and a museum of curiosities. It has also a flower-garden, and a carpenter's shop, furnished with a lathe and a complete set of carpenters' tools.

Terms, Tuition, Etc.

There are two terms in the year; the Winter Term of six months, commencing on the second Fourth-day in the Tenth Month; and the Summer Term of four months, commencing on the second Fourth-day in the Fifth month. Two vacations of four weeks each occur, one in the Spring and the other in the Autumn. No student is admitted except at the opening of a Session, and never for a period less than one year. A rule of the Association directs that "The school shall be open for the admission of Friends, the children of Friends, and of professors with Friends, who may desire their children to be educated in conformity with the principles and testimonies of our religious Society."

The price for Board and Tuition is \$200 per annum, payable as follows, viz. \$60 at the opening of the Winter Term; \$60 at the middle of it, and \$80 at the opening of the Summer Term.